

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) An interconnect (21) in a series of interconnects of a garment, the interconnect comprising:

a first portion (22) including a magnet (30) with a first magnetic direction and means for forming an electrical connection; and

a second portion (23) comprising means for forming an electrical connection when coupled with the first portion,

wherein the first (22) and second (23) portions form a mechanical connection and an electrical connection when connected, the garment further including:

a sensor for sensing a coupling of the interconnect in the series of interconnects,
wherein the sensor senses a current flow through the electrical connection of the
interconnect; and

an attachable device, wherein the attachable device [[is]] comprises a heating
device adapted to be incrementally controlled to increase or decrease heat produced by
the heating device in response to a number of coupled or uncoupled individual
interconnects in the series of interconnects sensed by the sensor.

2. (previously presented) The interconnect (21) of Claim 1, wherein the first portion (22) and second (23) portion form the mechanical connection using magnetic attraction generated by the magnet (30).

3. (original) The interconnect (21) of Claim 1, wherein the second portion (23) further comprises a magnet (41) with a second magnetic direction.

4. (original) The interconnect (21) of Claim 2, wherein the electrical connection is

aligned by the mechanical connection.

5. – 12. (canceled)

13. (original) The interconnect (21) of Claim 1, wherein the means for forming an electrical connection of the first (22) or second (23) portion comprises the magnet (30).

14. – 23. (canceled)

24. (currently amended) A garment (20) comprising:

a series of interconnects, each interconnect comprising:

a first portion (22) including a magnet (30) with a first magnetic direction and means for forming an electrical connection; and

a second portion (23) comprising means for forming an electrical connection when coupled with the first portion,

wherein the first (22) and second (23) portions form a mechanical connection and an electrical connection when connected, the garment further comprising:

a sensor for sensing a coupling of each interconnect in the series of interconnects, wherein the sensor senses a current flow through the electrical connection of the interconnect; and

an attachable device, wherein the attachable device [[is]] comprises a heating device adapted to be incrementally controlled to increase or decrease heat produced by the heating device in response to a number of coupled or uncoupled individual interconnects in the series of interconnects sensed by the sensor.